

FCC RF EXPOSURE REPORT

FCC ID: 2ADU2-H50296

Project No. : 1412C116
Equipment : 300Mbps Wireless N PCI-E Adapter
Model : H50296; N300PE; WL0274
Applicant : Hiro Inc.
Address : 13617 12th St. Unit C, Chino, CA 91710

**According: : FCC Guidelines for Human Exposure IEEE
C95.1**

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$R = \sqrt{\frac{PG}{4\pi S}} = \sqrt{\frac{ERP}{4\pi S}}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1		H001-10024-B	Dipole	N/A	2	TX/RX
2		H001-10024-B	Dipole	N/A	2	TX/RX

TEST RESULTS

EUT :	300Mbps Wireless N PCI-E Adapter	Model Name :	H50296; N300PE; WL0274
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	10.24	10.5682	0.00333388	1	Complies
2	1.5849	9.85	9.6605	0.00304755	1	Complies
2	1.5849	10.05	10.1158	0.00319117	1	Complies

EUT :	300Mbps Wireless N PCI-E Adapter	Model Name :	H50296; N300PE; WL0274
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	12.61	18.2390	0.00575374	1	Complies
2	1.5849	12.11	16.2555	0.00512803	1	Complies
2	1.5849	12.19	16.5577	0.00522336	1	Complies

EUT :	300Mbps Wireless N PCI-E Adapter	Model Name :	H50296; N300PE; WL0274
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	13.17	20.7491	0.00654561	1	Complies
2	1.5849	14.03	25.2930	0.00797903	1	Complies
2	1.5849	14.38	27.4157	0.00864869	1	Complies

EUT :	300Mbps Wireless N PCI-E Adapter	Model Name :	H50296; N300PE; WL0274
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	16.1	40.7380	0.01285140	1	Complies
2	1.5849	14.84	30.4789	0.00961502	1	Complies
2	1.5849	16.07	40.4576	0.01276293	1	Complies

Note: the calculated distance is 20 cm.